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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,920	09/15/2006	Carsten Detlefs	056982/00062	7628
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INTELLECTUAL PROPERTY DEPARTMENT			BURCH, MELODY M	
1177 AVENU NEW YORK.	E OF THE AMERICAS NY 10036	ART UNIT	PAPER NUMBER	
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			02/02/2011	EL ECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

klpatent@kramerlevin.com

# Office Action Summary

Application No.	Applicant(s)				
10/565,920	DETLEFS ET AL.				
Examiner	Art Unit				
Melody M. Burch	3657				

	Melody M. Burch	3657	
The MAILING DATE of this communication appr Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  Extensions of time may be available under the provisions of 37 OFR 1.13  after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the manurum statutory period we  Any reply received by the Office later than three morths after the mailing  aemed patent term adjustment. See 97 OFR 1.70(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 03 De 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters, pro		e merits is
Disposition of Claims			
4) ⊠ Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) □ Claim(s) is/are allowed.  7) □ Claim(s) is/are rejected.  7) □ Claim(s) is/are objected to.			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example.	epted or b) objected to by the fi frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some *c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	have been received. have been received in Applicative documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment(s)	n□	(272.440)	

Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Fatent Drawing Review (FTO 948)	Paper No(s //Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)	Notice of Informal Patent Application	
Paper Ne/s/Mail Date	6) Other:	

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### DETAILED ACTION

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/3/10 has been entered.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "said secondary load circuits" in claim 10 is indefinite. It is unclear to the Examiner whether the secondary load circuits of claim 10 are intended to be the same or different from the at least one secondary load circuit of claim 7. As best understood, Examiner has interpreted the phrase in claim 10 as intending to refer to the same at least one secondary load circuit of claim 7.

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# Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 3, 4, 11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6276761 to Beck in view of US Patent 3272980 to Freeman.

Re: claims 1, 3, 4 and 13. Beck shows in the figure an electronic compressed air system for a vehicle comprising a compressed air supply part shown on the left side of the figure including a compressor 11 and a compressed air consumer part shown on the right side of the figure, the compressed air consumer part including a plurality of service-brake circuits 2.1, 2.2 having compressed air load circuits and compressed air reservoirs as disclosed in col. 4 lines 45-47, a high pressure compressed air load circuit 2.3 (which is a high pressure compressed air load circuit as compared to the low pressure compressed air load circuit 2.4), and electrically actuatable valves 21, 22, 23 comprising a first plurality of electrically actuatable valves 21, 22 and at least one other electrically actuatable valve 23, wherein the first plurality of electrically actuatable valves 21, 22 are operable to supply compressed air to the plurality of service brake circuits and wherein the at least one other electrically actuatable valve is operable to supply compressed air to the high pressure compressed air load circuit, and wherein the first plurality of electrically actuatable valves are in an open position in a state, sensors

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shown above elements 31 for monitoring pressure in the service brake circuits, and an electronic control unit 15 for evaluating electrical signals from the sensors and for controlling the electrically actuatable valves, the at least one other electrically actuatable valve operable to supply compressed air to the high pressure compressed air load circuit being switchable by the electronic control unit between a closed position in a denergized normal state as disclosed in col. 4 lines 29-30 and an open position to establish communication between the at least one other electrically actuatable valve with at least one of (i) the service brake circuits (ii) the compressed air resdrvoirs and (iii) the compressed air supply part, when compressed air is requested for the high pressure compressed air load circuit.

Beck discloses the first plurality of electrically actuatable valves being in an open position in a state, but is silent with regards to the electrically actuatable valves being in an open position in a de-energized normal state.

Freeman teaches in col. 3 lines 45-47 the use of an electrically actuatable valve that is normally open in a de-energized state in order to effect service brake application.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the service brake circuit valves of Beck to have been normally open in a de-energized state, in view of the teaching of Beck, in order to provide a means of supplying compressed air to the service brake circuits in a fail safe manner.

Re: claim 11. Beck, as modified, teaches in Beck in the figure the limitation wherein the electrically actuatable valves 21 and 22 and the electrically actuatable valve

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23 associated with the high pressure compressed air load circuit are connected to a common compressed air distributor line 20 to which there is connected a compressed air supply line shown in the area at the end of the lead line of number 16 in communication with the compressor.

 Claims 2 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beck in view of Freeman as applied above, and further in view of US Patent 4911617 to Burna et al.

Re: claim 2. Beck, as modified, is silent with regards to the high pressure compressed air load circuit being an air-suspension circuit.

Buma et al. teach in figure 1 the use of a compressed air system wherein a high pressure compressed air load circuit 20 is an air-suspension circuit.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the high pressure compressed air load circuit of Beck, as modified, to have been an air suspension circuit, as taught by Buma et al., in order to provide a means of leveling a vehicle during its travel along a road.

Re: claim 12. Beck, as modified, teaches in Beck that the system further comprises a check valve 16 disposed in the compressed air supply line and describes the presence of an air dryer, but Beck does not state that the air dryer is disposed in the compressed air supply line.

Buma et al. teach in figure 1 a system comprising an air dryer 7 disposed in the compressed air supply line 2a.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Beck, as modified, to have included the air dryer disposed in the compressed air supply line, as taught by Buma et al., in order to provide a means of purifying and drying the air before it reaches the consuming circuits.

Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Beck in view of Freeman as applied above, and further in view o US Patent 4799707 to
 Burna et al.

Beck, as modified, is silent with regards to the system further comprising an electronic control device adapted to control the high pressure compressed air load circuit and to communicate with the electronic control unit via a data line.

Burna et al. teach in figure 1 a system comprising an electronic control device M9 adapted to control the high pressure compressed air load circuit and to communicate with an electronic control unit M8 via a data line shown between M8 and M9.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Beck, as modified, to have further included an electronic control device adapted to control the high pressure compressed air load circuit and to communicate with the electronic control unit via a data line, as taught by Buma et al., in order to provide a means of decreasing the pressure at the delivery port of the compressor to reduce the amount of torque needed to start the compressor to satisfy an air demand request.

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8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Beck in view of Freeman as applied above, and further in view of US Patent 4616881 to Muller et al.

Re: claim 7. Beck, as modified, discloses in col. 4 lines 43-47 that each consumer circuit may include a reservoir then gives the example of circuits 2.1 and 2.2 having a reservoir, but is silent with regards to specifically the at least one secondary load circuit being without compressed air reservoirs.

Muller et al. teach in figure 1 the limitation wherein the compressed air load circuits have at least one secondary load circuit III and IV without compressed air reservoirs where as circuits I and II have reservoirs 3 and 4, respectively.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the circuits of Beck, as modified, to have included at least one secondary load circuit without compressed air reservoirs, as taught by Muller et al., in order to provide a means of supplying compressed air without the need for superfluous components.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Beck in view of Freeman and US Patent 4616881 to Muller et al. as applied to claim 7 above, and further in view of US Patent 6149246 to Terborn et al.

Re: claim 8. Beck, as modified, discloses in Beck at least one secondary circuit 2.4 and Beck, as modified, discloses that element 2.4 is specifically a low pressure circuit, but is silent with regards to the at least one secondary circuit specifically having a lower pressure level than in the service brake circuits.

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Terborn et al. teach in col. 3 lines 14-17 the use of one circuit having a pressure that is lower than another.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the at least one secondary circuit of Beck, as modified, to have had a lower pressure level than in the service brake circuits, in view of the teachings of Terborn et al., in order to provide a desired pressure level depending on desired application. For example, one may provide less pressure in the secondary circuit for the parking brake since it is used less frequently than the service brake and since the service brake can be utilized until the parking brake is sufficiently pressurized.

Re: claim 9. Beck, as modified, suggests that the high pressure compressed air load circuit 2.3 has a pressure level that is higher than in the secondary or low pressure load circuit 2.4 and suggests that the pressure level of the high pressure compressed air load circuit is higher than in the service brake circuits when the service brakes are not applied and the parking brake is, but is silent with regards to the pressure level between the high pressure compressed air load circuit and the other of the secondary load circuits.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the at least one secondary circuit of Beck, as modified, to have had a lower pressure level than in the high pressure compressed air load circuit, in view of the teachings of Terborn et al., in order to provide a desired pressure level depending on desired application.

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Re: claim 10. Beck, as modified, teach in Beck the limitation wherein the at least one secondary load circuit includes solenoid valves 24, 26 and further comprising a pressure limiting valve 16, which limits pressure from right to left of the valve, interposed upstream from the solenoid valves of the at least one secondary load circuits.

# Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

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be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claim 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/566016 in view of US Patent 6276761 to Beck. With regards to the limitation of a high pressure circuit at least one of without and with a compressed air reservoir the instant invention is broad. In *In re Goodman*, 29 USPQ 2d 2010 (Fed. Cir. 1993), the court held that for the purposes of obvious double patenting a later genus (broad) claim is not patentable over an earlier species (narrow) claim. With regards to the limitation reciting how the electronic control unit evaluates the electrical signals from the sensors, Examiner notes that Beck teaches such evaluation, as discussed above in the 103 rejection. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the evaluating scheme of '016 to have included a an evaluating scheme, as taught by Beck, in order to provide a means of directing air flow as desired depending on the particular application.

This is a provisional obviousness-type double patenting rejection.

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# Response to Arguments

 Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 571-272-7114. The examiner can normally be reached on Monday-Friday (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on 571-272-7124. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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mmb January 29, 2011

/Melody M. Burch/ Primary Examiner, Art Unit 3657